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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/084,523	02/28/2002	Jeffrey Charles Trewella	JCT002	7718
7590 02/23/2005			EXAMINER	
Jeffrey C. Trewella			DAVIS, RUTH A	
c/o Innovative Solution\$ Inc. 283 Hickory Drive			ART UNIT	PAPER NUMBER
Kennett Square,			1651	

DATE MAILED: 02/23/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
·	10/084,523	TREWELLA, JEFFREY CHARLES				
Office Action Summary	Examiner	Art Unit				
	Ruth A. Davis	1651				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
Period for Reply	VIO OCT TO EVENE AMONTHY	C) TDOM				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period v. - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from to , cause the application to become ABANDONEI	nely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 22 N	ovember 2004.					
2a) This action is FINAL . 2b) ☑ This	·					
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-22</u> is/are pending in the application.						
4a) Of the above claim(s) <u>1-10</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>11-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	ır.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
Certified copies of the priority document						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau		_				
* See the attached detailed Office action for a list	of the certified copies not receive	0 .				
		<i>;</i>				
Attachment(s)	A) Intonious Commence	(PTO.413)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date.						
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:	atent Application (PTO-152)				

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DETAILED ACTION

Applicant's Request for Continued Examination filed on November 22, 2004 and the amendment filed on July 23, 2004 have been received and entered into the case. Claims 1-22 are pending; claims 1-10 are withdrawn from consideration; claims 11-22 have been considered on the merits. All arguments have been fully considered.

Specification

The abstract of the disclosure is objected to because of the recitation of the term "said" in lines 2-4. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

1. Rejections under 35 U.S.C. 112, first paragraph, have been withdrawn due to amendment.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 11 – 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Boyse in view of Annas.

Applicant claims a method for paying storage costs of cord blood, the method comprising dividing cord blood containing stem cells into at least two portions, selling one portion and using the monies made to pay for the second portion. The method further includes recovering the blood from a donor followed by concentrating, diluting, purifying, amplifying and stabilizing the blood before dividing the cord blood.

Boyse teaches methods for storing cord blood, the method comprising collecting blood, stabilizing, concentrating, purifying (col.18), diluting and amplifying (col.18-19) fractions of the blood for cryogenic storage.

Boyse does not teach the claimed method of payment for storing cord blood. However, Annas discloses methodologies wherein companies sell collected cord blood for therapeutic use in the event a donor cannot pay the storage costs (p.1524). As evidenced by Annas, it was known in the art that storing cord blood could become costly. At the time of the claimed invention, it would have been obvious to one of ordinary skill in the art to use any means necessary to pay for a service, to include labor and/or selling their valuables. As evidenced by Annas, cord blood was known to have monetary value. In addition, the idea of selling cord blood to pay for storage costs was known, as evidenced by Annas. At the time of the claimed invention, it would have been obvious to one of ordinary skill in the art to sell cord blood as a method of paying for storage costs, since Annas teaches such practices were known to occur and since cord blood was known to have monetary value, as evidenced by Annas. Moreover, at the

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time of the claimed invention, one of ordinary skill in the art would have been motivated to sell cord blood in order to pay for storing any remaining cord blood with a reasonable expectation for defraying those storage costs.

Response to Arguments

Applicant argues that the references do not teach dividing the cord blood into portions, and selling portions of the blood to defray storage costs; that the examiner uses impermissible hindsight; that there is no motivation to sell cord blood to pay for storing cord blood; and that the references do not teach dividing the cord blood into two portions that remain whole blood.

However, these arguments fail to persuade, because Gonzalez-Ryan teaches dividing a portion out from the sample that is stored separately (p.108), Kline teaches fractioning (dividing) the blood, Wolf teaches dividing the blood prior to storage, and Boyse teaches fractionating the cells (or dividing the blood into at least 2 portions). Furthermore, while Annas does not specifically teach selling a portion to defray costs of storing a second portion, the reference certainly teaches selling cord blood for monetary gain. At the time of the claimed invention, it would have been obvious to one of ordinary skill in the art to sell cord blood in the event that the storages costs can not be paid for its well known value, as disclosed by Annas. It would have been further obvious to one of ordinary skill in the art to maintain at least a portion of the blood, as storage of the cord blood is the purpose for needing the monetary gain. Moreover, at the time of the claimed invention, one of ordinary skill in the art would have been motivated to sell a

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portion of cord blood with a reasonable expectation for successfully paying for storing another portion.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., dividing cord blood into two portions that remain whole blood) are not recited in the rejected claims. Thus, the argument is not commensurate in scope with the claimed invention. Furthermore, the claims are clearly directed to a method wherein the processing of the cord blood occurs prior to dividing the sample. Specifically, steps of purification, concentration, dilution and amplification all occur before dividing the cord blood, indicating that the at least two portions do not remain as whole blood.

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

For the reasons stated here and above, the claims are rejected.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ruth A. Davis whose telephone number is 571-272-0915. The examiner can normally be reached on M-H (7:00-4:30); altn. F (7:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ruth A. Davis February 15, 2005 AU 1651

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